Udit Jain

M.Tech – Computer Science and Engineering - NIT, Warangal

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Github | Linkedin | LeetCode | HackerRank

PROFESSIONAL EXPERIENCE

Intel Corporation - Bengaluru, *Software Engineer Intern* Jul 2025 – Present

- Added **CSV export functionality** to **Material UI tables** in PRISM, Intel's internal analytics platform, enhancing reporting efficiency and cutting manual data handling time.
- Integrated **ReactJS logic** with **MUI components** to support downloadable, filterable, and paginated data tables across **3+ enterprise dashboards**.

CISCO Systems - Bengaluru, *Software Engineer Intern* May 2025 – Jul 2025

- Built an **AI automation system** using **LangChain** and **LLMs** to streamline software patch deployment, testing, **report generation**, and **dashboards** on router hardware systems, reducing manual effort and ensuring timely test result visibility for all stakeholders.
- Developed a **Webex chatbot** along with **four intelligent agents** for patch loading, Jenkins execution, and log analysis, making regression testing **faster** and reducing debugging time by **38%.**

Centre for Development of Telematics (C-DOT) - Delhi, *Software Engineer* Jan 2023 – Jul 2024

NCCS – Workflow Simulation Platform

- **Led the end-to-end development** of the NCCS project homepage using ReactJS, Spring Boot, MySQL, and Thymeleaf, resulting in **faster page loads** and an enhanced user experience for internal government officials. Collaborated closely with a team of 12+ developers to gather detailed requirements, **design and implement complex features**, conduct thorough testing, and ensure **seamless deployment** with **minimal bugs**.

POTP – Hardware Testing & Automation

- **Developed and tested ROADM5 hardware configurations** with 82xx, 85xx, and T1022 processor cards, ensuring seamless integration across **15+ telecom systems and reducing setup issues**. **Implemented NTP software and debugged 30+ non-functional cards**, significantly **improving system reliability and reducing downtime**.

Infosys Technologies Private Limited - Bengaluru, *Digital Specialist Engineer* Jul 2022 – Dec 2022

E-Shop Hub

- **Collaborated with an 8-member team** to develop and deploy a scalable e-commerce web application using the MERN stack for a major client, **serving 10,000+ users daily**.
- **Improved user experience** by redesigning the UI with React and optimizing data flow using Node.js and MongoDB, leading to **smoother navigation**, while also r**educing ~25% server response times** to handle high user traffic efficiently.

SKILLS

Languages
Core Java, Java 8, JavaScript, Python

Frameworks & Libraries
Spring Boot, ReactJs, LangChain

Databases
MySQL, MongoDB

Tools & Systems
Git, Jenkins, Postman, REST APIs

Operating System:
Linux, Windows, Macintosh

CS Foundations
System Design, Data Structures, Algorithms

PROJECTS

NeuroPredict, *Parkinson's Disease Detector*

- Built **CatBoost** and **XGBoost** models to detect **Parkinson's disease** from **vocal biomarkers**, using 22+ extracted features like jitter, shimmer, and NHR: achieved **96.6% accuracy** and **91.4% MCC**, outperforming baseline models in binary classification.
- Led end-to-end **ML pipeline** including **data preprocessing, SMOTE** balancing**,** and **GridSearchCV tuning**, resulting in a model with **>94% precision** and robust performance across cross-validation folds on a 195-sample medical dataset.

YelpCamp2021, *Camp Finder*

- Designed **a full-stack** campground **review platform** using **Node.js, Express, MongoDB,** and **EJS**, featuring full **CRUD functionality**, search support, and a **responsive UI**, achieving **100% mobile compatibility.**
- Implemented **user authentication, campground management,** and **review handling**, enabling **50+ dynamic campground entries** with secure access control, and optimized data operations to improve page load time.

YieldXplain, *Crop Yield Prediction using XAI*

- Engineered a high-accuracy **ML model** for Indian crop yield prediction using the **Random Forest** algorithm, achieving **98.96% accuracy**, with **MAE of 1.97** and **RMSE of 2.45**, trained on multi-state crop production data enriched with features like area, crop type, and season.
- Created and **integrated SHAP visualizations**, such as **force and waterfall plots**, into existing analytical frameworks; increased interpretability of complex models, enabling informed decision-making for agricultural stakeholders.

EDUCATION

M.Tech – Computer Science and Engineering, Aug 2024 – Present
National Institute of Technology, Warangal
CGPA - 8.90

B.Tech – Computer Science and Engineering, Aug 2018 – Jul 2022
Maharaja Agrasen Institute of Technology, New Delhi
CGPA - 9.06